DEPARTMEN

POLK COUNTY HEALTH DEPARTMENT

DISTRICT OFFICES

1755 HOLLAND PKWY,, SOUTH BARTOW, FLORIDA 33830

P.O. BOX 691 HAINES CITY, FLORIDA 33844

P. O. BOX 334 LAKE WALES, FLORIDA 33853

103 EAST CANAL STREET MULBERRY, FLORIDA 33860 WILLIAM F. HILL, JR., M.D.
DIRECTOR

P. O. BOX 1480 229 AVENUE D. N.W. WINTER HAVEN, FLORIDA 33880

April 30, 1976

DISTRICT OFFICES

1333 NORTH FLORIDA AVE, LAKELAND, FLORIDA 53801

P. O. EOX 33 WAVERLY, FLORIDA 33,877

2 NORTH REEDY BLVD. FROSTRPOOF, FLORIDA 33843

243 E, LAKE AVENUE AUBURNDALE, FLORIDA 33823

Barrett, Haentjens & Company Hazleton, Pennsylvania 18201 SITE: Florida Phosphate
BREAK: 17.8
OTHER: V.4

Dear Sir:

Enclosed you will find a gamma map of BARRETT, HAENTJEN & COMPANY of FLORIDA. The map is comprised of 12 internal gamma radiation readings and 14 external gamma radiation readings. The following is the interim guidelines set forth by the United States Environmental Protection Agency, they have been printed in the Federal Register.

INTERIM RECOMMENDATIONS FOR GAMMA EXPOSURE LEVELS AT NEW STRUCTURED SITES ON FLORIDA PHOSPHATE LANDS

EXTERNAL GAMMA RADIATION LEVEL

RECOMMENDATIONS

Equal or greater than 10 uR/hr

Construction should be delayed pending additional study or acceptable control technology should be instituted to preclude indoor radon daughter problems.

Less than 10 uR/hr

Construction may be initiated.

As compared to the guideline, the readings taken at your plant do not meet the 10 uR/hr radiation level. But I would like to point out that the interim recommendations purpose is to limit radon daughter exposures in structures constructed on Florida phosphate lands.

Radon 222 is a radioactive daughter product of the uranium decay series. It in turn decays into other radioactive elements. The problem arises from the fact that Radon 222 is a gas that decays fairly rapidly and can be inhaled into the lungs. There it decays into radioactive solids, which, if present in large enough quantities can become cancer causative agents.



Although your plant has elevated gamma readings it is doubtful that you would have a large buildup of Radon 222 in your plant due to its construction.

I am making reference to the large entrances at both ends of your plant. These large openings should provide more than adequate ventilation for a structure of this size. We are in the process of obtaining equipment which will measure the amount of Radon present in a structure. This equipment should arrive later this summer. At that time we would be glad to further our investigation of your plant for you.

I would also like to point out that the recommendations set forth by the EPA are interim and a final report and regulations should be forth coming by the end of 1976.

Sincerely

Harlan Keaton Industrial Hygienist II

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POLK COUNTY HEALTH DEPARTMENT

FIELD REPO	ORT ON BARRETT, HAR	ENTJENS, & COMPANY OF FLORIDA
risiv nwor	EED Mulberry -	Highway 60 West DATE April 19, 1976
OWNER OF F	ROPERTY Barrett, Ha	aentjens & Co. Hazleton, PERSON SEEN E. Diaz
BY WHOM_	Harlan Keat	ton and Lee Forgey TIME SPENT 2 hours
REASON FOR	VISIT Make gamma	map of company built on reclaimed phosphate land.
•		
REPORT:	NO. uR/hr	
Column A numbered -26 correspond to positions numbered on the attached nap. Column B represents readings at these positions on Micro- Roentgen per nour	4 - 10.2 5 - 9.9 6 - 11.9 7 - 10.4 8 - 16.0 9 - 10.0 10 - 9.5	Readings 1-12 were all taken inside the building. Reading No. 8 may be elevated due to its closeness to the edge of the slab. (Compare reading No. 8 to reading No. 21 with 21 being outside the structure and off the slab but having a close proximity to No. 8). All other readings were taken outside the building. Note at position 18 there were large amounts of what appeared to be furnace slag which normally has an elevated gamma reading. Readings 14 and 15 were taken at fairly large distances from the building and may be in an area that has not be disturbed by mining operations.
	26 - 10.2	

POLK COUNTY HEALTH DEPARTMENT

	FIELD REPORT	ON BARRET	r, haentjens & com	PANY OF FLORID	A	
	TOWN VISITED_	Mulber	ry - Highway 60 Wes	st DATE	April 19	, 1976
	OWNER OF PROP	ERTY Barrett,	Haentjens & Co. Ha	azleton, PERSO	ON SEEN <u>E.</u>	Diaz
	BY WHOM	Harlan K	eaton and Lee Forgo	PA ey TIME	SPENT 2 h	ours
	REASON FOR VI	SIT Make Gam	ma Map of company l	built on recla	imed phospha	te land.
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